

3W-1187

SOLUTION HANDLING AND TEMPERATURE CONTROL FACILITIES

SYSTEM DESCRIPTION

GENERAL

DECLASS REVIEW by NIMA/DOD

██████████ Drawing 85506 indicates, in schematic form, a chemical mixing and distribution system designed to support photographic film processing equipment. The system, when installed, shall form a complete facility for preparing and handling various photographic solutions. Internal capabilities include mixing, filtering, temperature control, storage and transfer of chemical solutions. Components of the system are selected for the highest possible reliability with a minimum of maintenance required.

EQUIPMENT - MAJOR COMPONENTS

The following is a list of equipment and materials supplied by ██████████ for the culmination of the system:

1. Six (6) 100 gallon stainless steel mixing tanks.
2. Six (6) portable propeller-type mixers.
3. Twelve (12) multi-cartridge solution filters.
4. Twelve (12) solution transfer pumps.
5. Six (6) "Heliflow" type heat exchangers for cooling solutions.
6. Six (6) stainless steel heater tanks and heaters for heating solutions.
7. One (1) temperature control center consisting of a stainless panel on which are mounted:
 - a. Six channel temperature indicators.
 - b. Six (6) temperature control units.
 - c. Temperature control switches and mode indicator lights.
8. One (1) chilled water unit consisting of:
 - a. A 3 ton air cooled packaged chiller.
 - b. Chilled water storage tank.
 - c. Two (2) water circulating pumps.
 - d. A water filter.
9. Stainless steel framework modules as required for supporting pumps, filters, heat exchanges, etc.
10. Poly-vinyl chloride (PVC) piping, fittings, and valves as required to interconnect the entire solution system within the two rooms designated for the equipment. The piping system shall connect to six existing lines which are now run to the processing area.

11. All electrical conduit, fittings, disconnects, etc. for the system.
12. All piping, tubing, valves, etc. for the chilled water system.

JWC/ew

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STATINTL

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